NEW YORK HARBOR

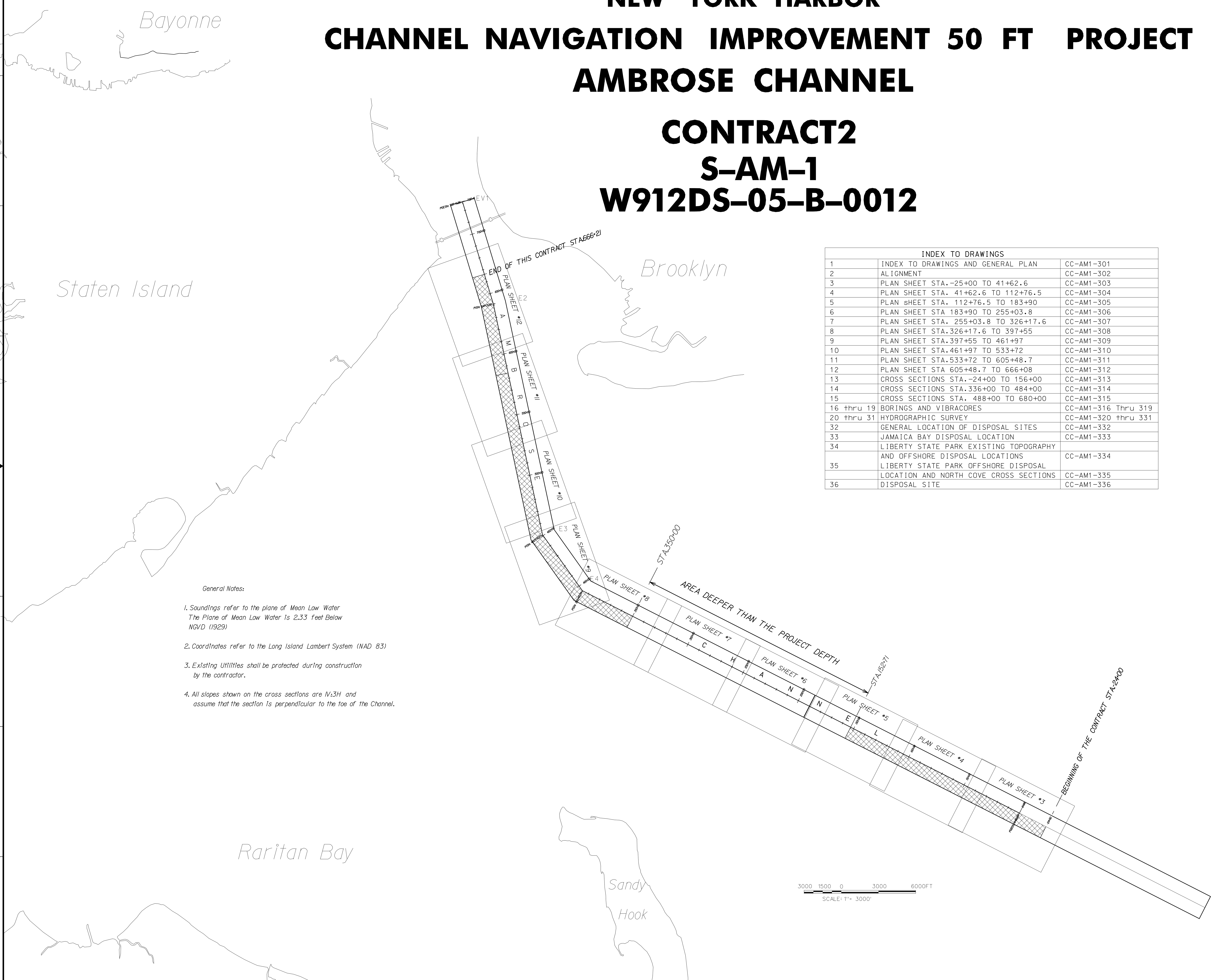
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT

AMBROSE CHANNEL

CONTRACT2

S–AM–1

W912DS–05–B–0012



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General Notes:

1. *Soundings refer to the plane of Mean Low Water The Plane of Mean Low Water is 2.33 feet Below NGVD (1929)*
2. *Coordinates refer to the Long Island Lambert System (NAD 83)*
3. *Existing Utilities shall be protected during construction by the contractor.*
4. *All slopes shown on the cross sections are IV:3H and assume that the section is perpendicular to the toe of the Channel.*

US Army Corps of Engineers
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Symbol	Description	Date	Appr.
	Sheet C-35 is eliminated and sheet numbers are rearranged accordingly 1 thru 36, and sheet 34 and 35 are revised	6/10/05	G.A.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Gezahegne Assegid
Dwn by: G.A
Ckd by:
Reviewed by: G.A
Submitted by:
Date: 13MAY 2005
Size: —
Rev.:
Drawing file no.: CC-AM1-301
Drawing code:
Plot date: 10-JUN-2005 15:24
Plot by: e3endga3
Scale: 3000.000000:1.000000
File name: S:\fileroom\civil\NYHarbor\Civil\Ambrose Channel\amb_gp.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

COVER SHEET,GENERAL PLAN AND INDEX TO DRAWINGS

Sheet reference number:
C-1
Sheet 1 of 36

Submitted by: e3endga3 Plot Date: 10-JUN-2005 15:24
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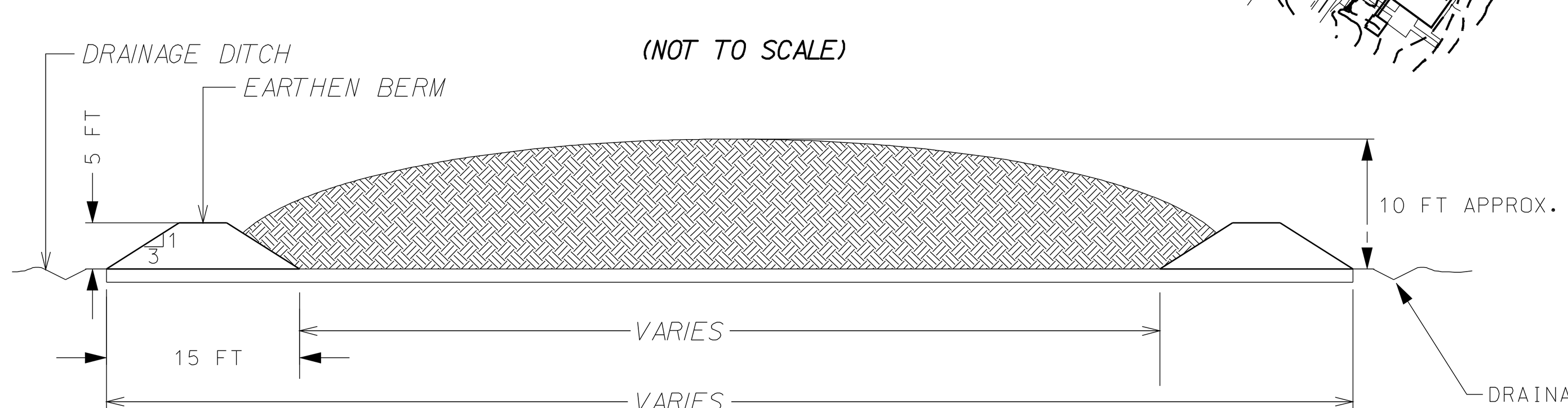
ON-SHORE STOCKPILE
TYPICAL CROSS-SECTION

(NOT TO SCALE)



1.General Location of Spud Barge Location and Turbidity Curtain as indicated on this drawing are appropriate.Their final locations are subject to approval by the contracting contracting officer.
2.Two different areas will be designated for disposal:the North cove and the Upland Stockpile.The sub aqueous North Cove will recive 1 ft of material above existing grade.The material will be pumped Hydraulically from the Spud Barge Location directly to the North Cove,as indicated in the cross sections on sheet C-35.
3.The bathymetry shown on this sheet is in vertical datum NAVD 1988.The source of the Bathymetry is the navigation Chart NOAA chart 12327,89th Edition June 15,1996.The bathymetry in the north Cove only was from a USACE hydrographic survey developed in Spring 2003.The bathymetry inside and outside the North Cove only represents the conditions when the surveys were taken. Accurate water depths in the location of where the spud barge will be docked may need to be obtained.
4.For the upland stokpile,the initial dewatering will consist of an earthen perimeter berm as indicated in sheetC-34,made out of existing on-site material,to be built by others.The maintenance of the berm during placement operations is the responsibility of the contractor.Movement of the material in the stockpile location is also contractor's responsibility.The maximum water level in the stockpile location will be monitored by the contractor so that the perimeter berms can contain the water and slurry. Adjacent to the dewatering area,additional berm or pounding areas needed are subject to approval by the contract officer and NJDEP.
⚠2 5.When the entire site perimeter is completed with berms and barriers,the dredge pipeline length may be increased to deposite/stockpile material toward the end of the designated Upland Stockpile location.
6.The topographic survey shown in sheet C-34 is from a USACE survey developed in August 2003.While no major changes to the topography have been observed, the topography only represents the conditions when the surveys were taken.The contractor will use the survey to assure flow of water toward the dewatering area.Similar smaller dewateering areas may be required if positive slope cannot be achived.These dewatering areas must be approved by the contracting officer and NJDEP.The contractor will not cause flooding of water in any area in Liberty State Park except in the stockpile location and in the approved dewatering or ponding ares.
7.The contractor shall assure adequate dewatering of the site and minimize water velocities dicharging into open water to approximately 2 ft/sec.The excess water must be discharged into the North Cove.The pipes delivering the dredge material and discharging the dewatered water must run along the existing roads in Liberty State Park,causing minimal disturbance to vegetation and the overall operations of the park.The final pipe layout shall be approved by the contracting officer.Adequate support must be provided when the pipes cross over public roads in the park so that the roads can remain open to vehicular traffic.
8.The dewatred water will be discharged back into the North Cove,which will follow all NJDEP water discharge permitting rules and regulations.It is recommended that a metal weir structure be constructed to assist in the proper filtering and dewatering procedure.

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Symbol	Description	Date	Appr.
⚠2	Note is Added	6/10/05	G.A.

Designed by: | Date: 13MAY 2005 | Size: | Rev.:
Dwn by: | Ckd by: | Drawing file no.:
Reviewed by: | Drawing code:
Submitted by: | Plot date: 10-JUN-2005 15:23 | Plot by: e3endga3 | Scale: 200.000000:1.000000

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W912DS-05-B-0012

File name: S:\fileroom\civil\NYHarbor\Civil\Ambrose Channel\sheet34.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

LIBERTY STATE PARK
EXISTING TOPOGRAPHY & BATHYMETRY

Sheet reference number:
C-34
Sheet 34 of 36

Submitted by: e3endga3 Plot Date: 10-JUN-2005 15:23
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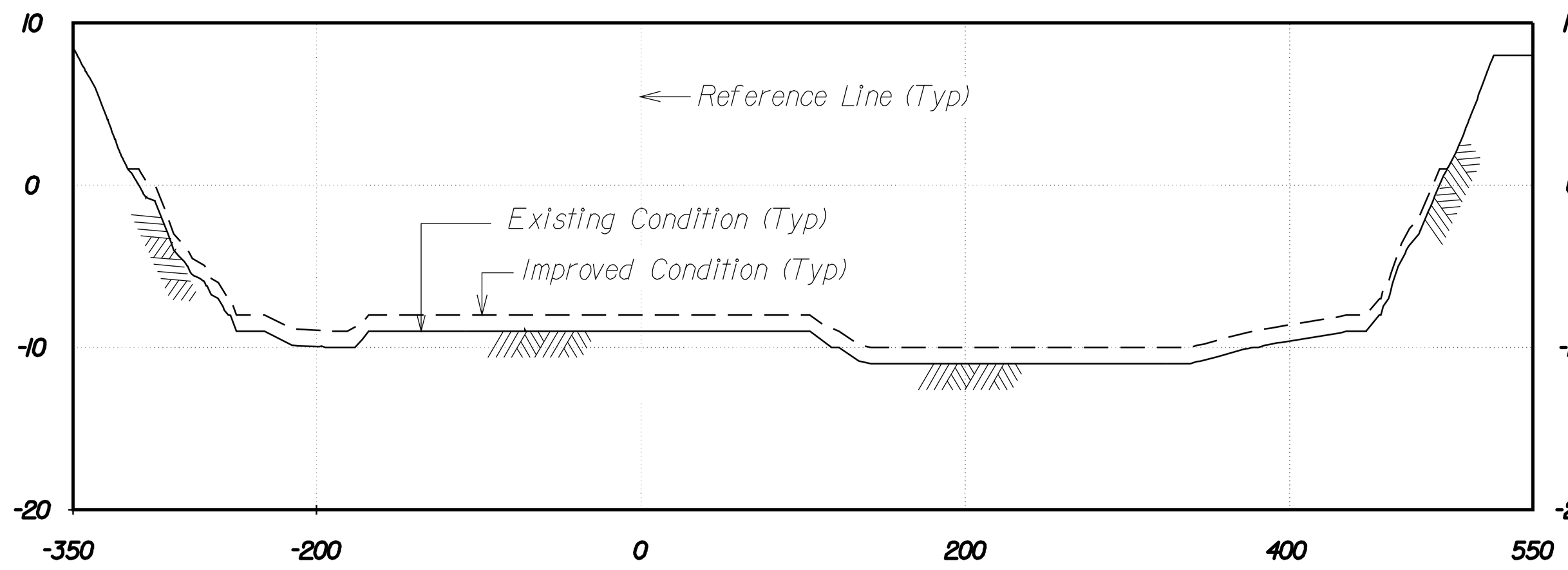

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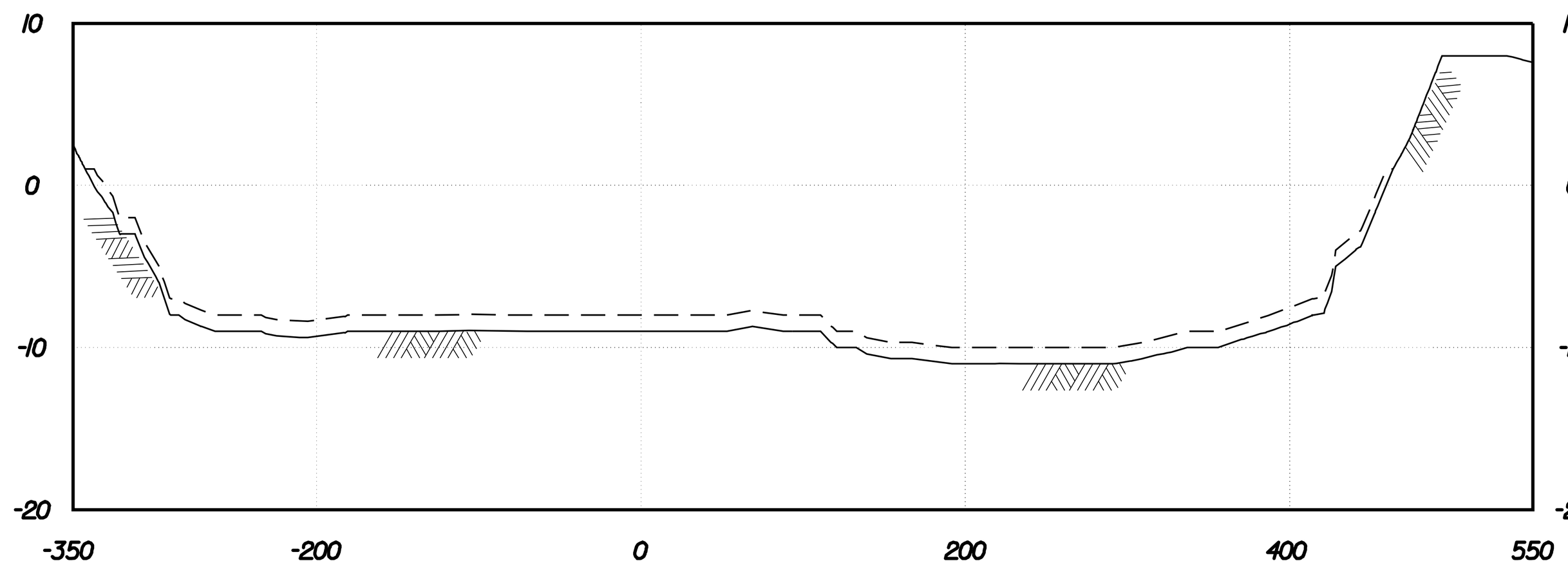

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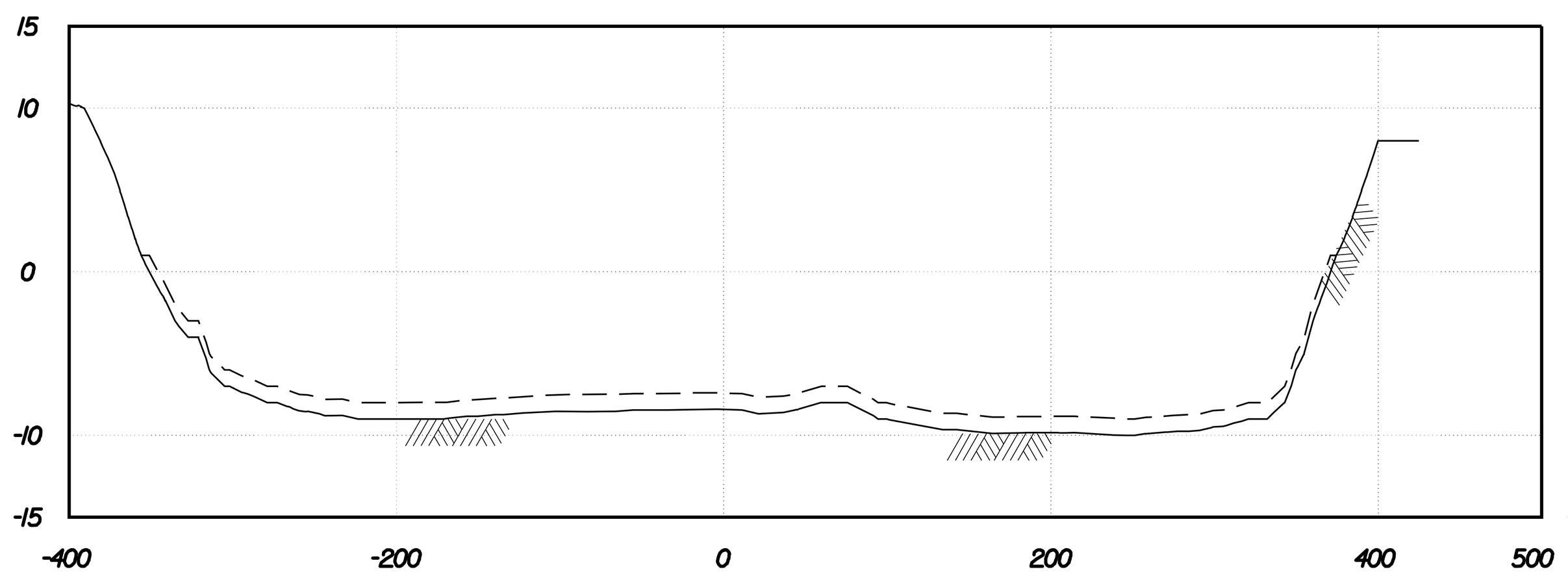

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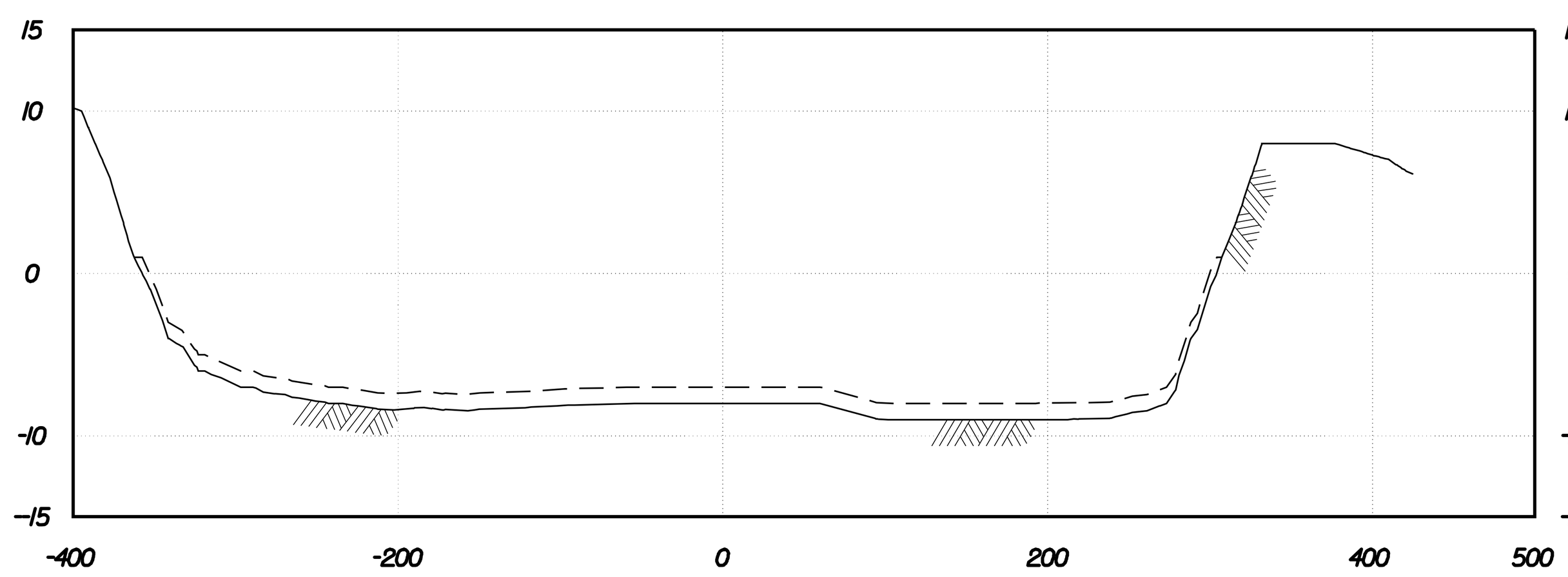

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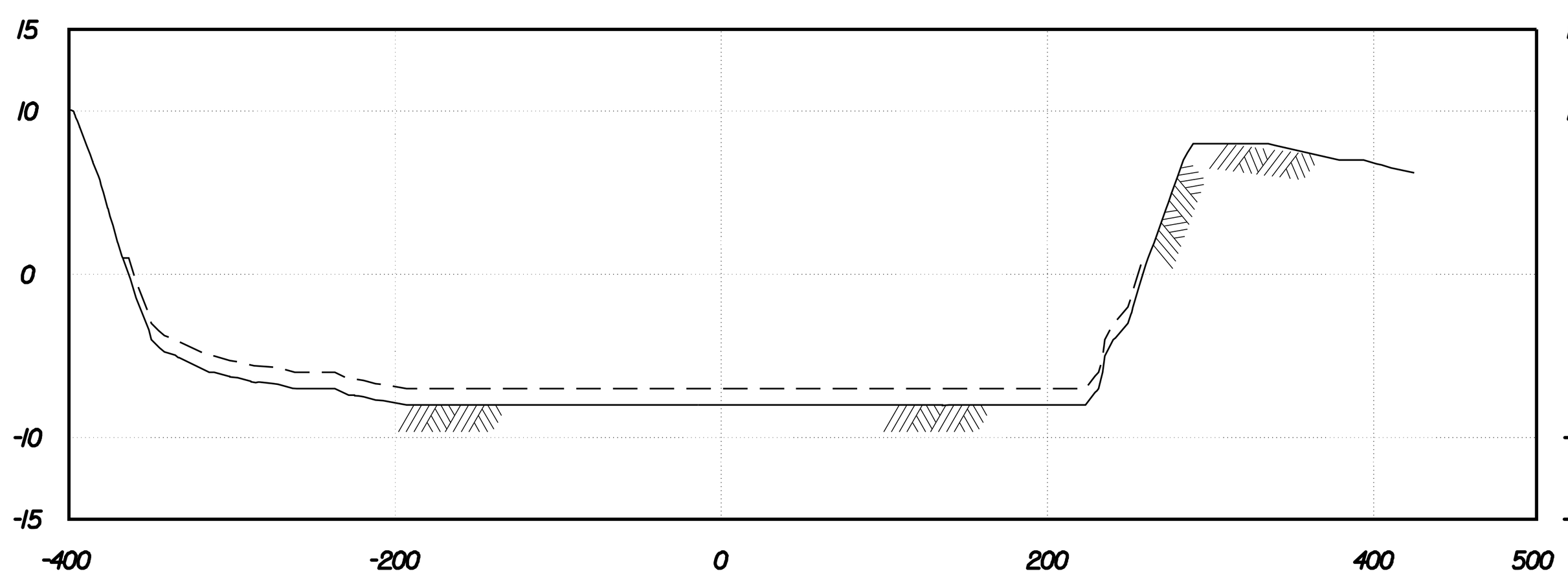

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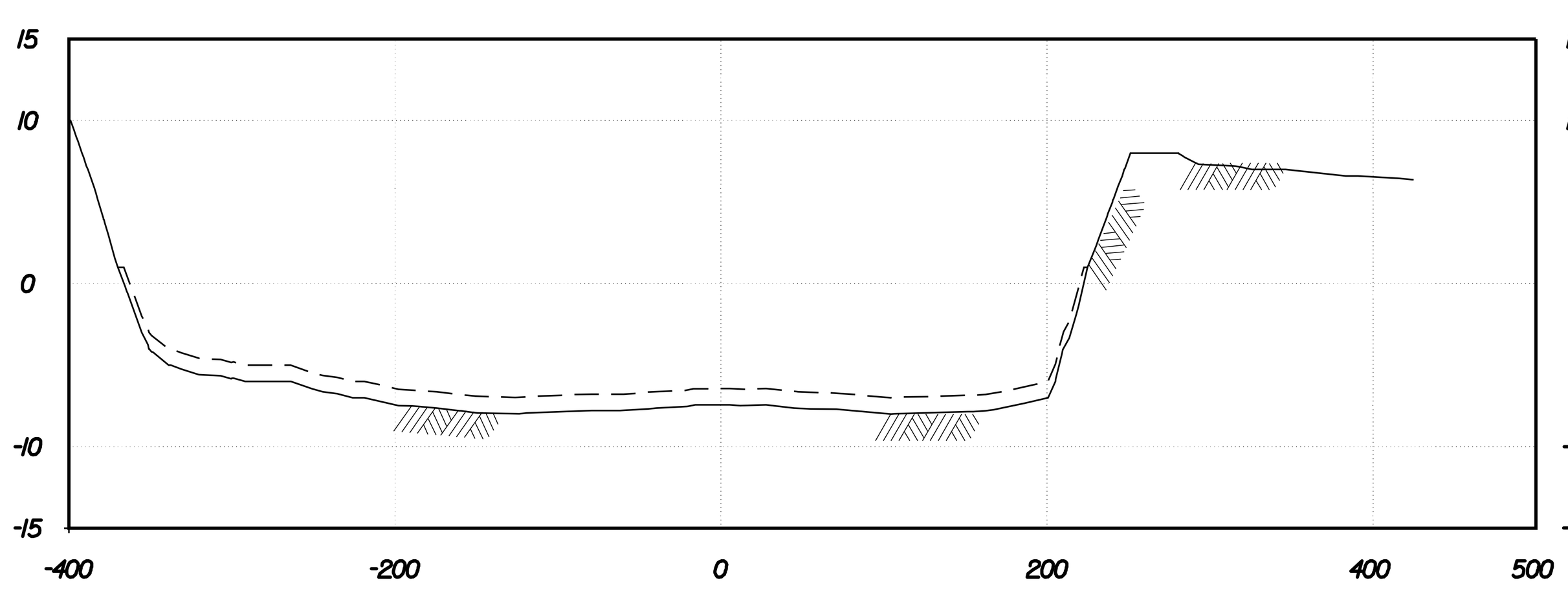

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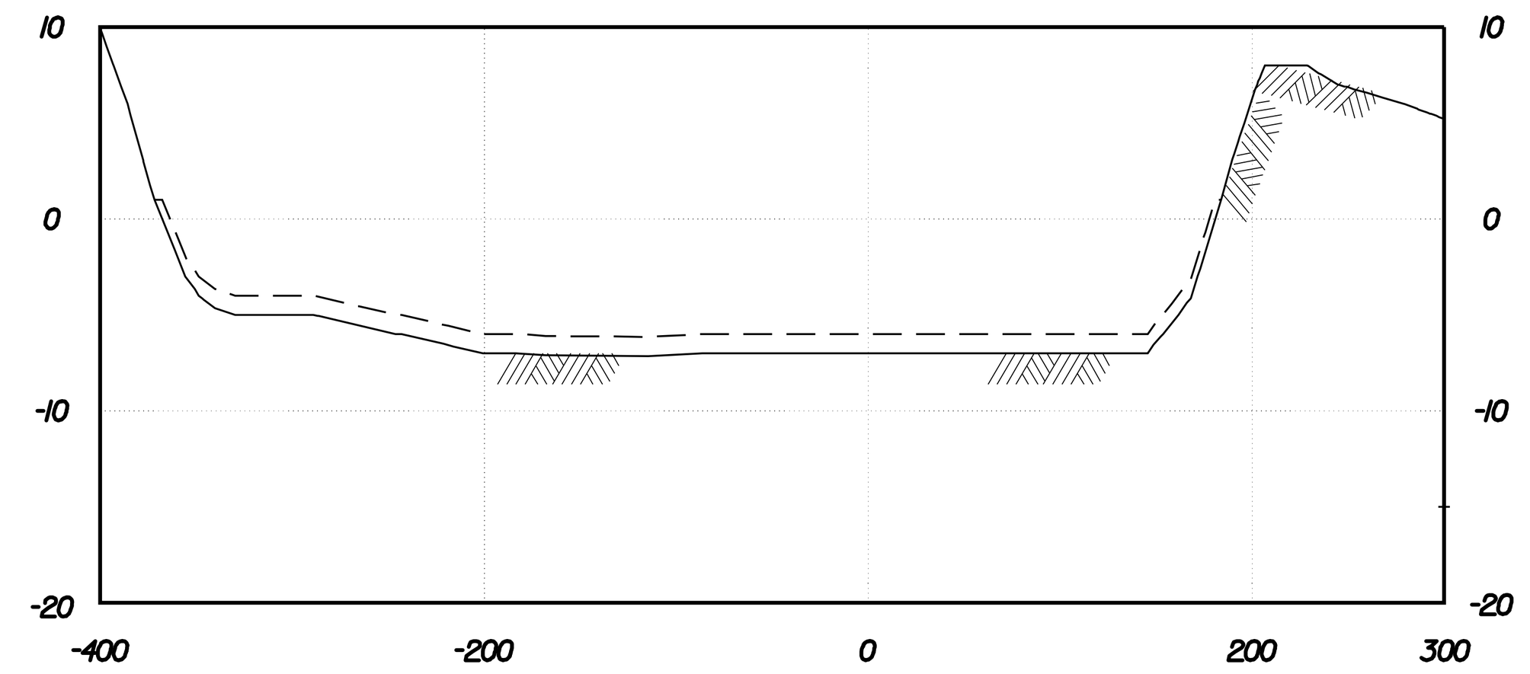

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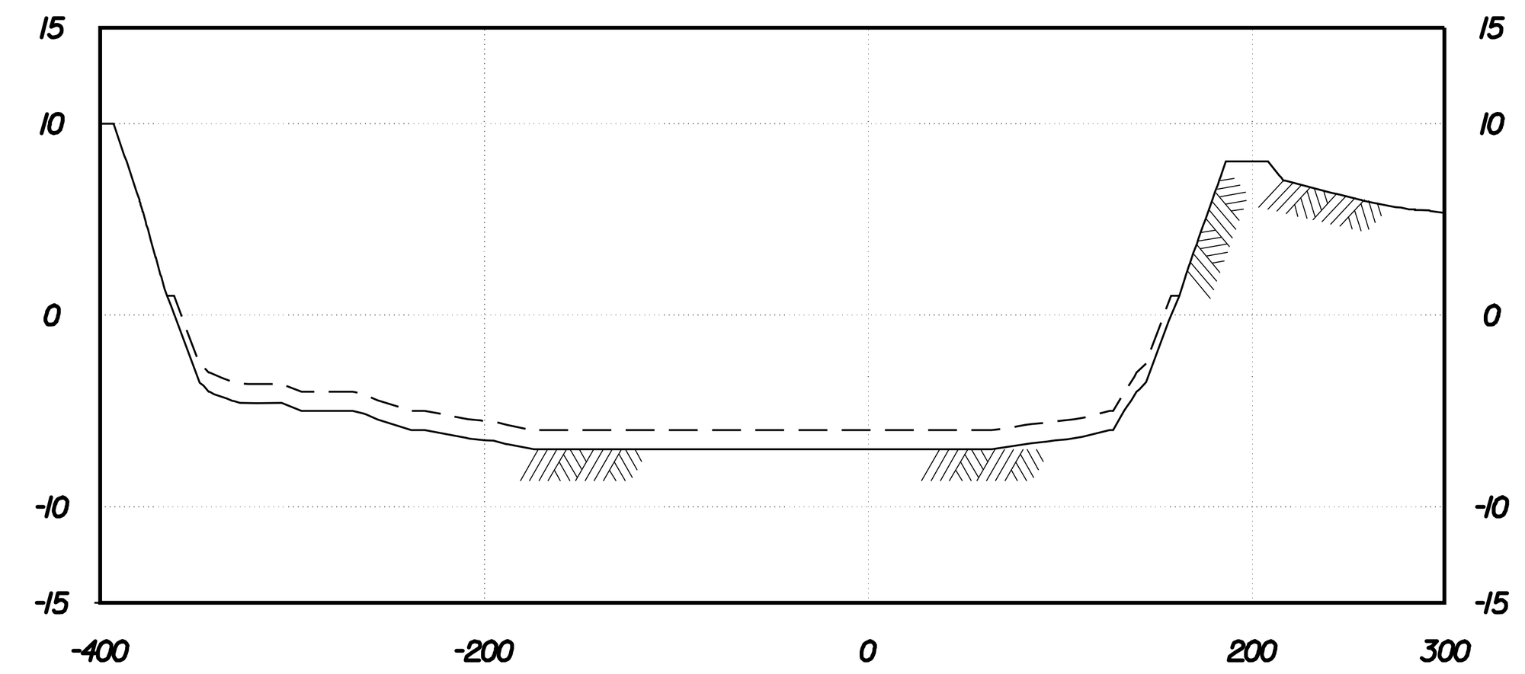

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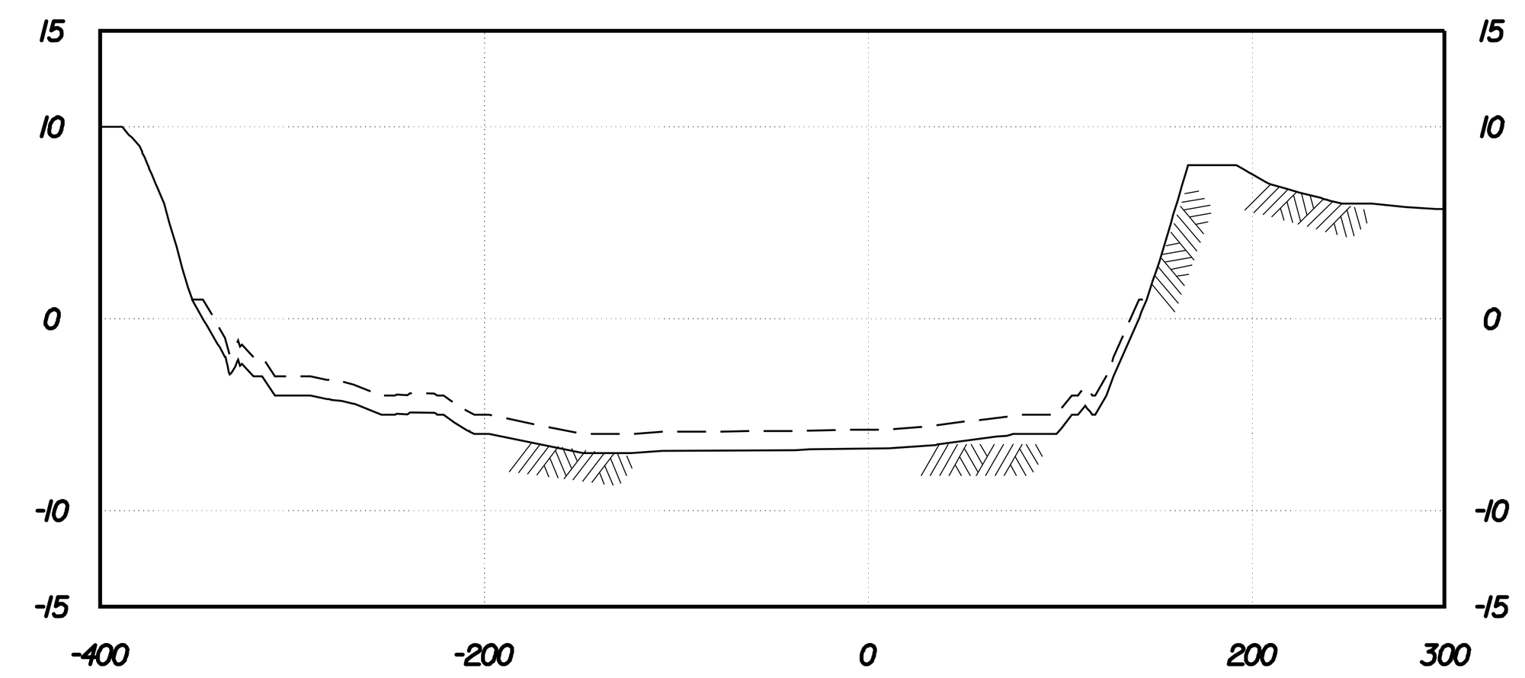

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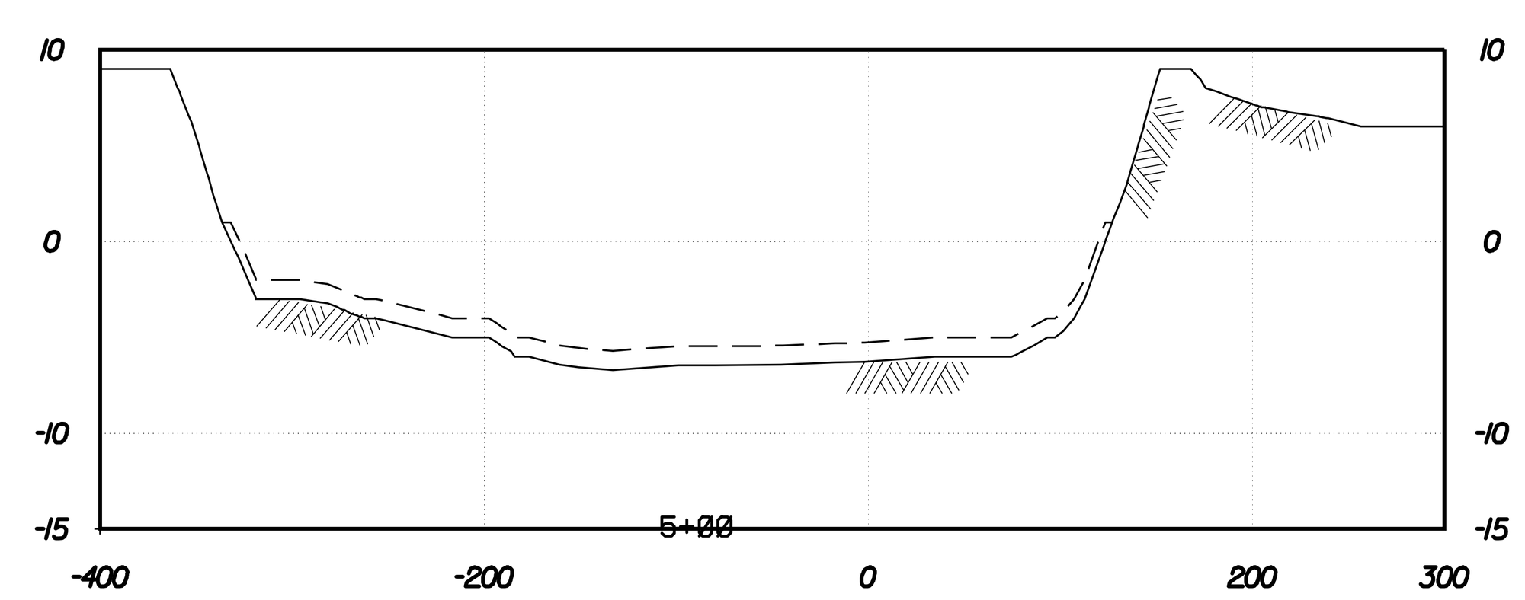

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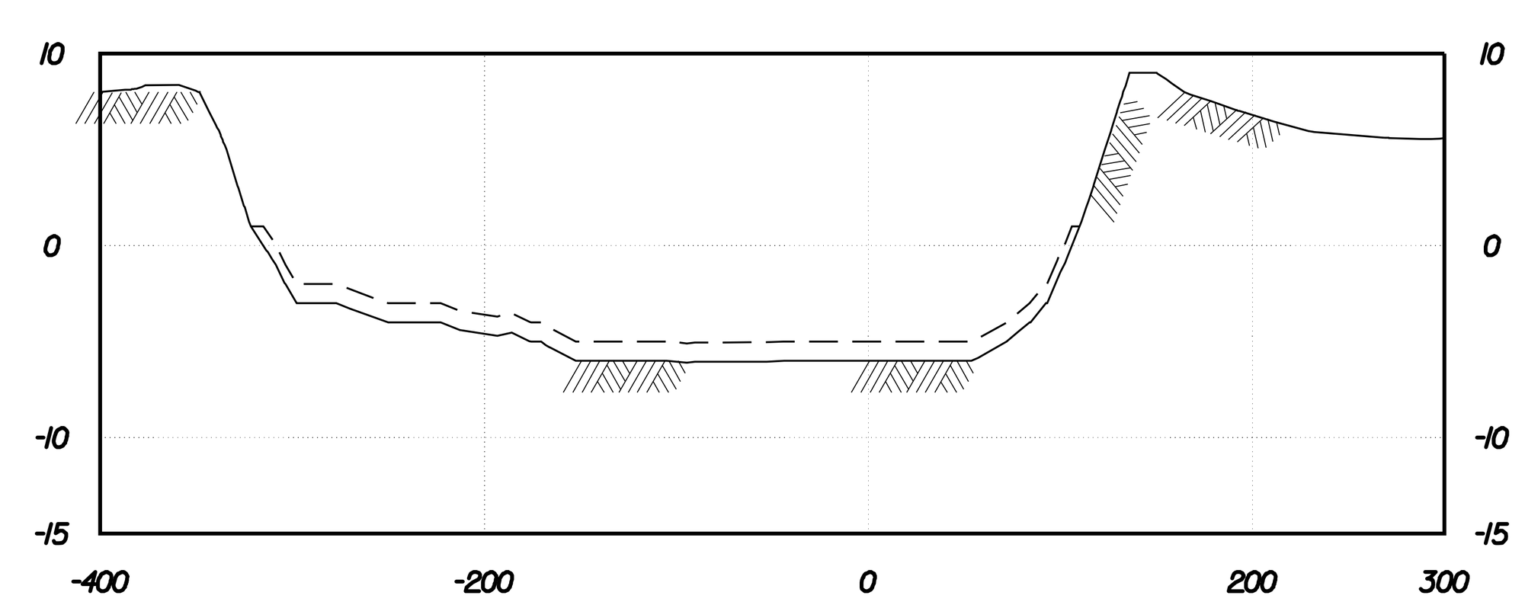

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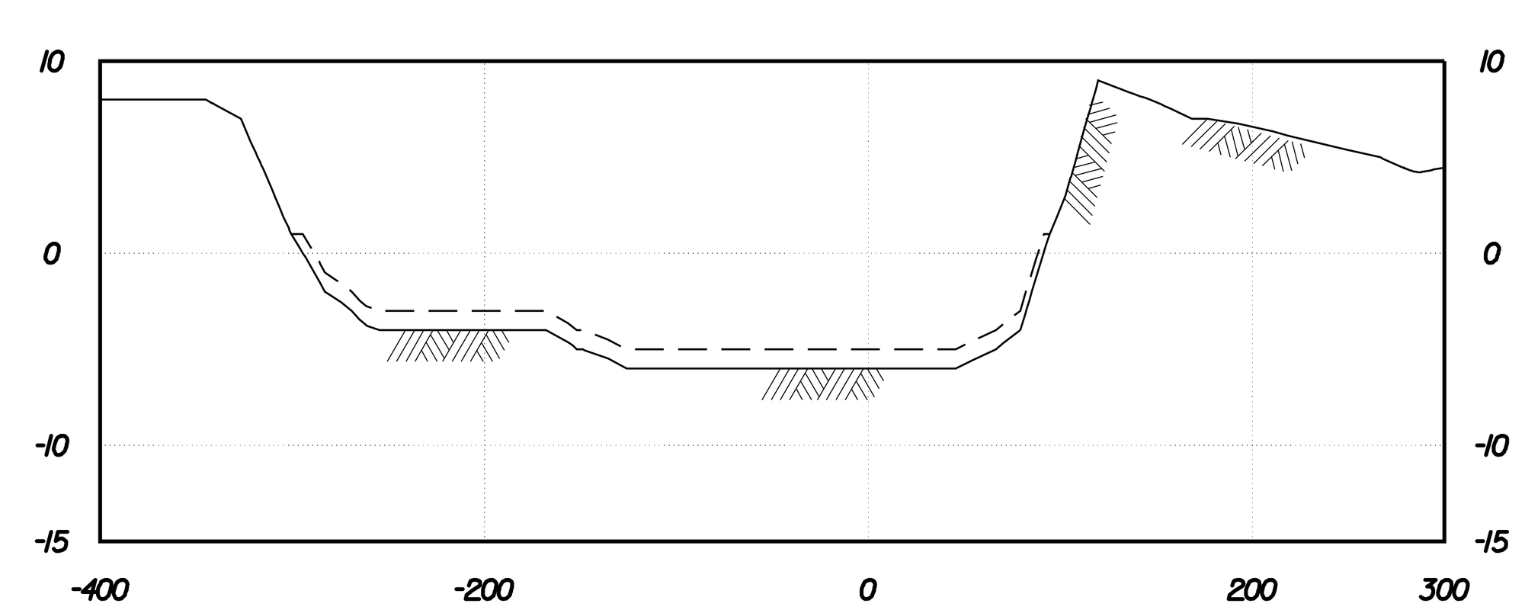

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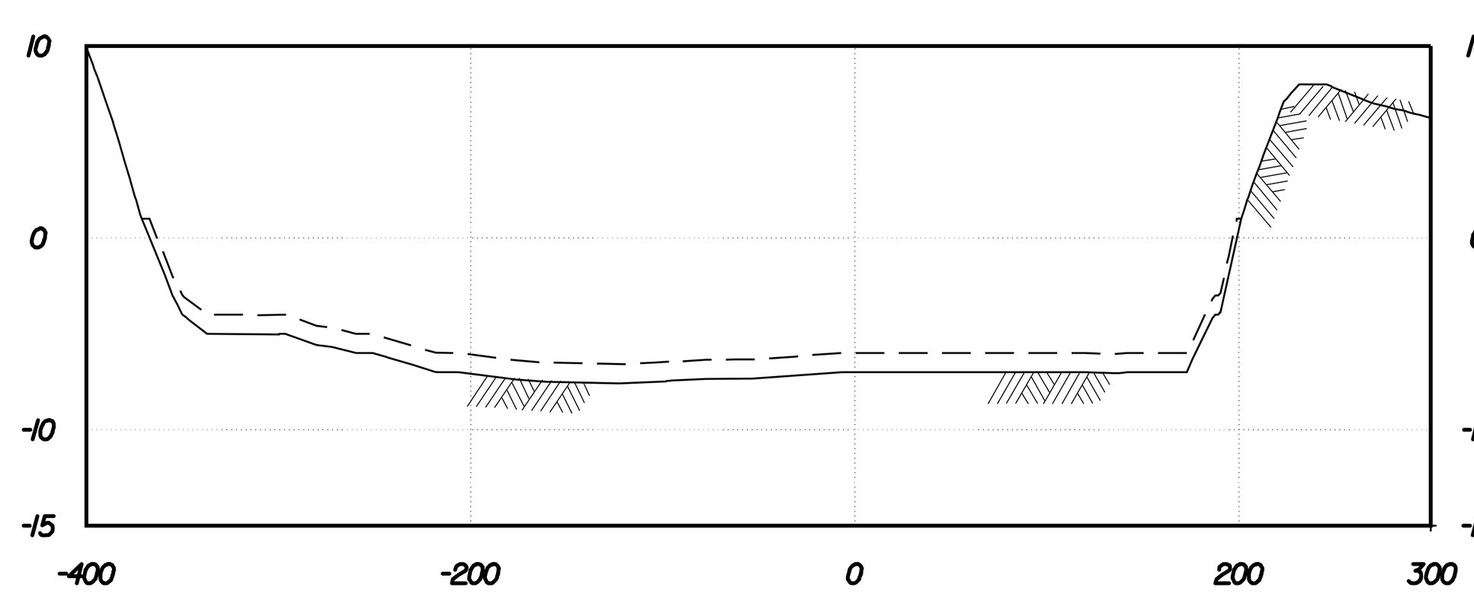

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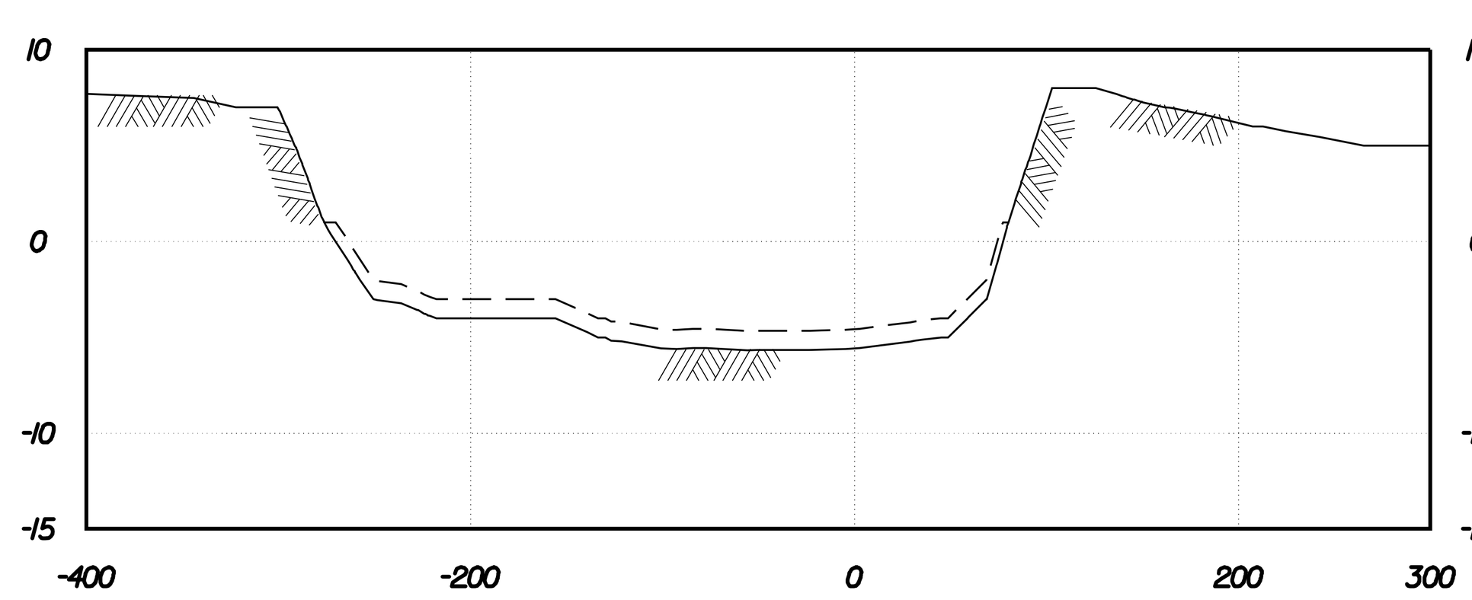

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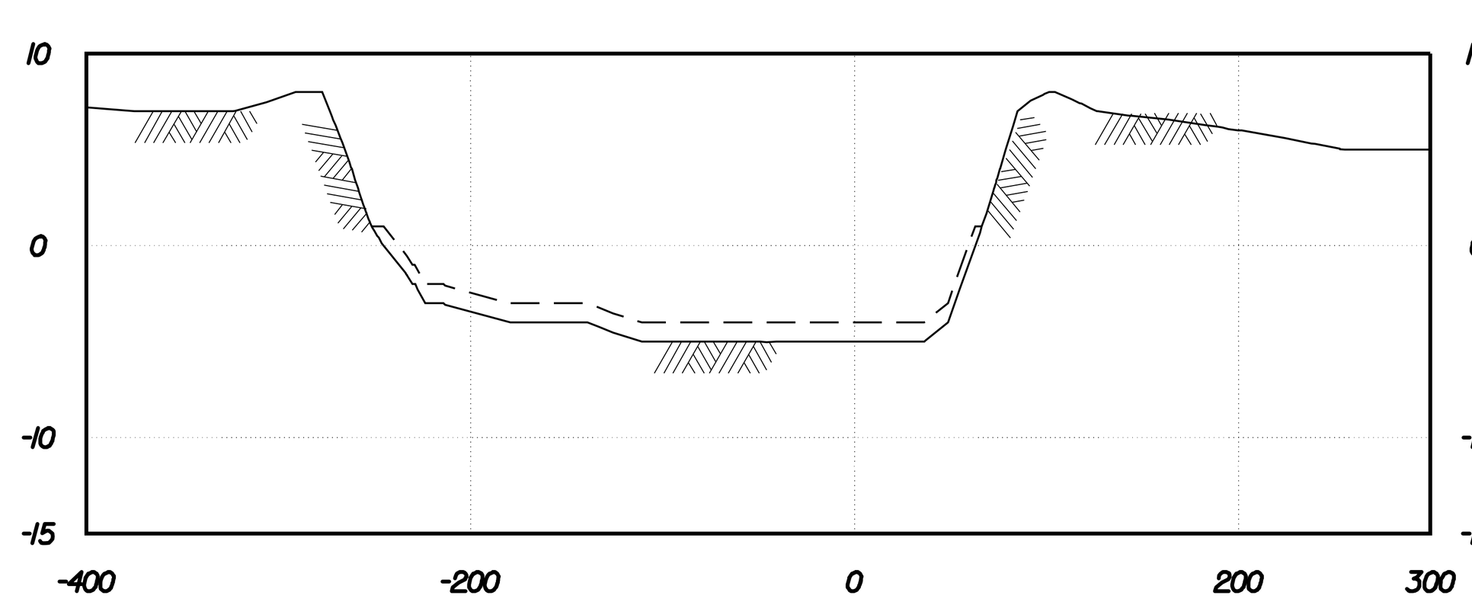

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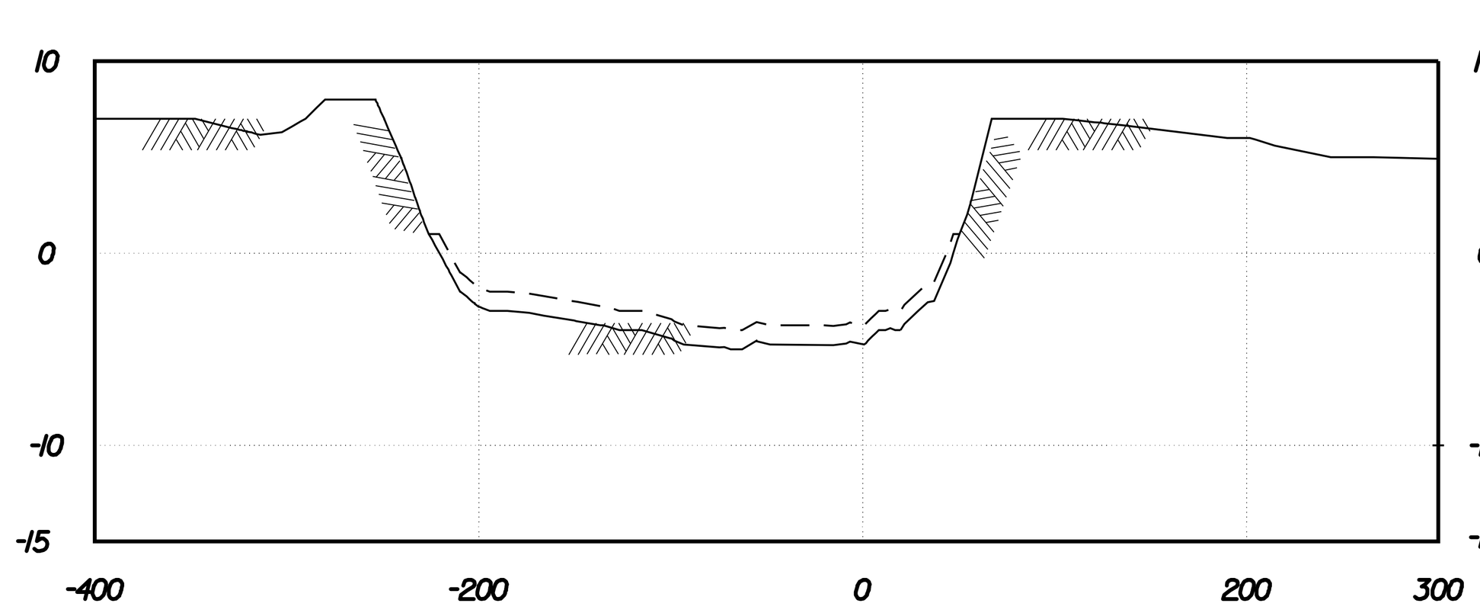

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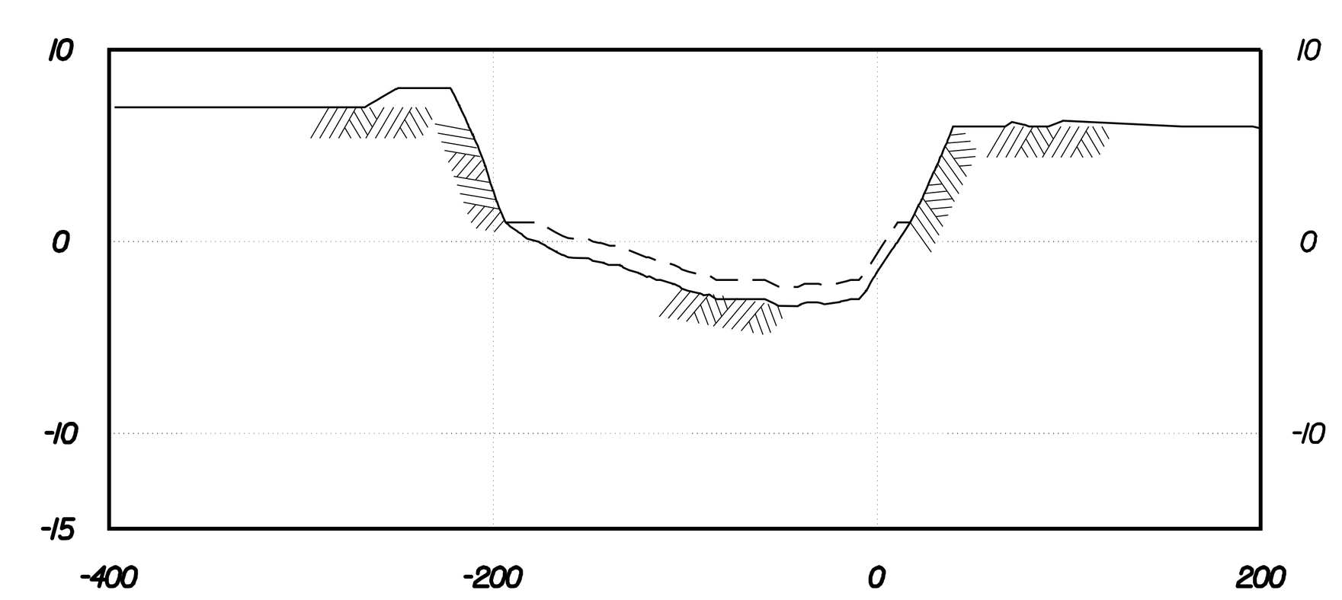

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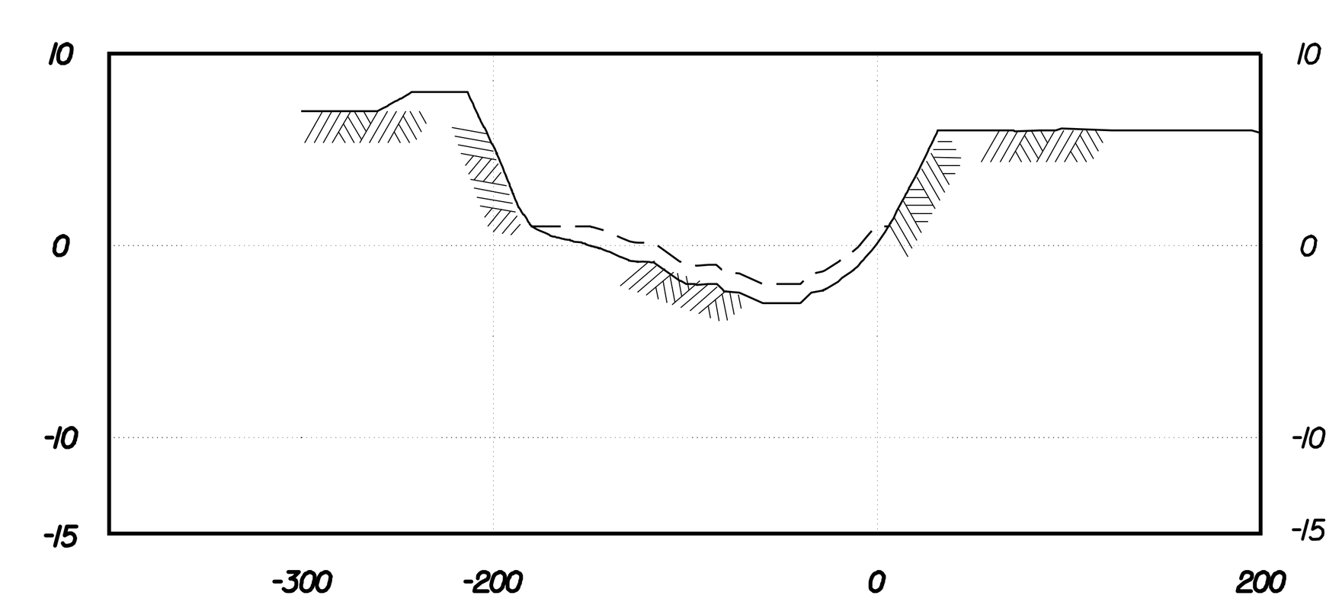

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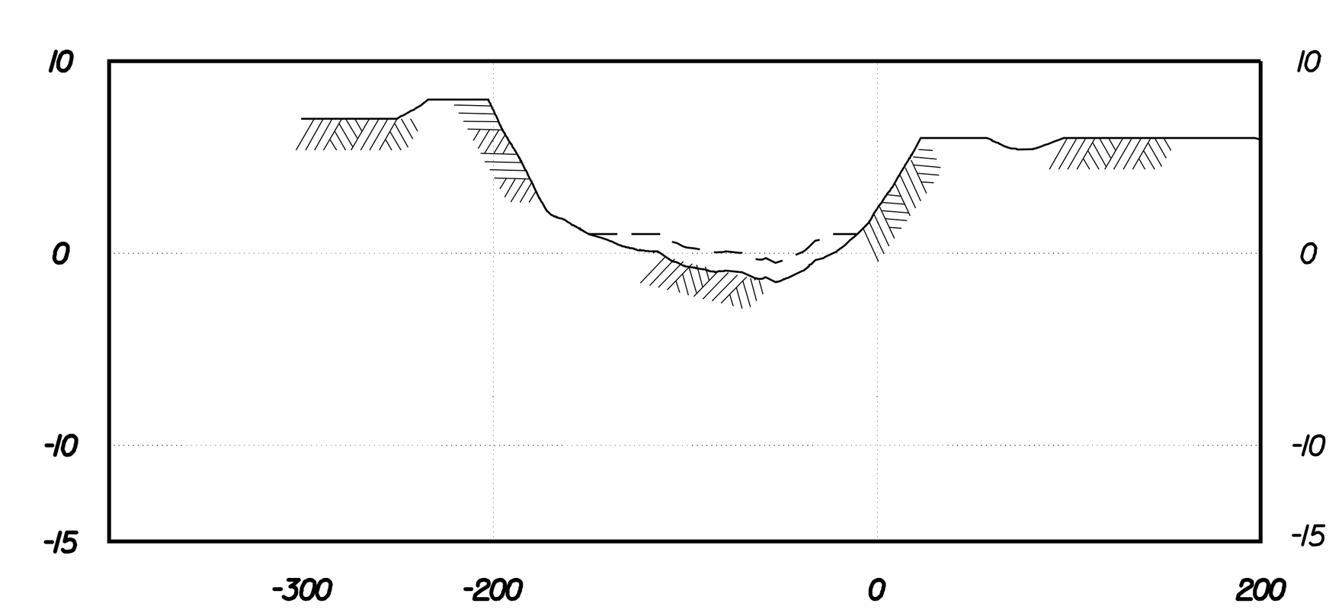

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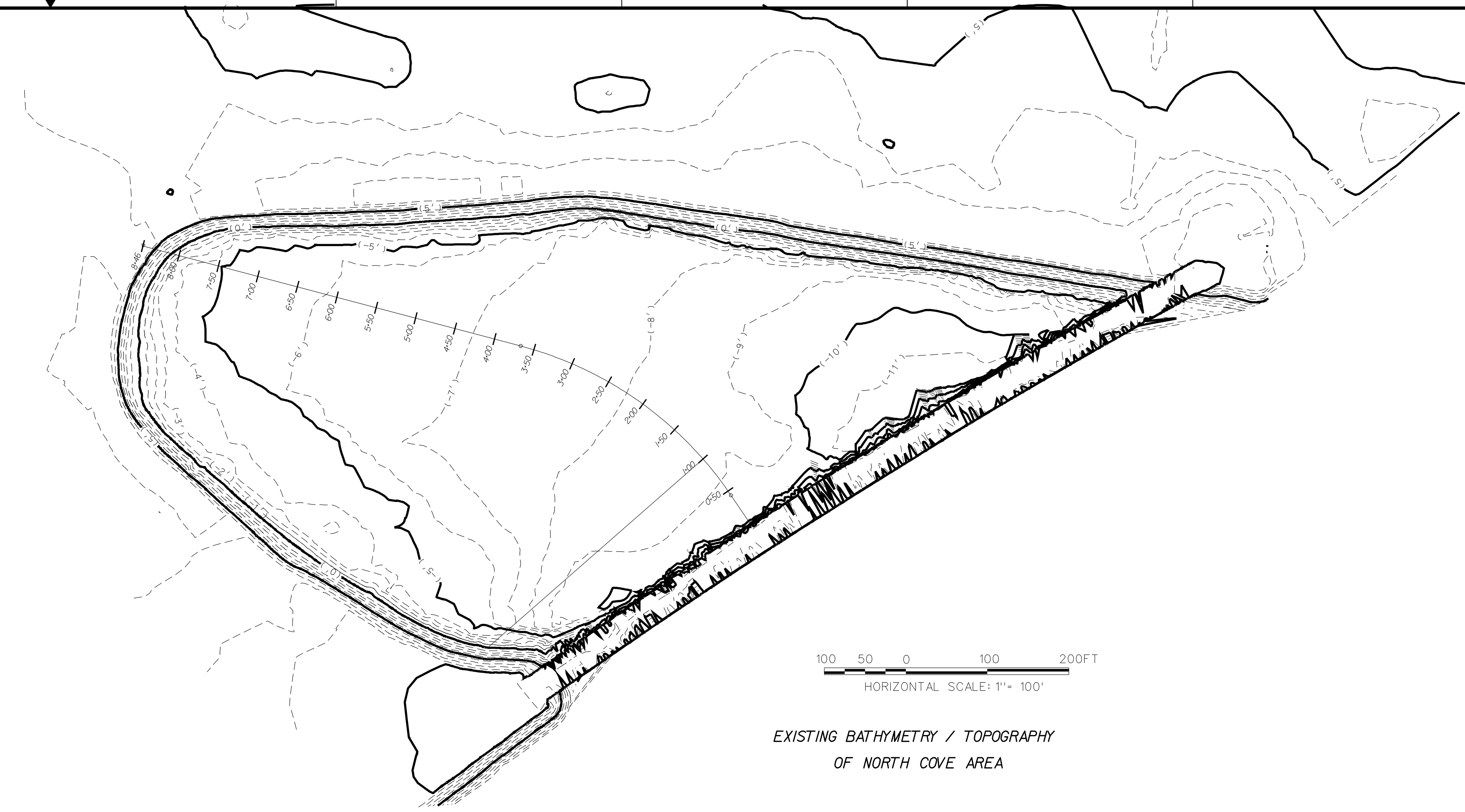

100 50 0 100 200FT
HORIZONTAL SCALE: 1"= 100'

EXISTING BATHYMETRY / TOPOGRAPHY
OF NORTH COVE AREA

100 50 0 100 200FT
HORIZONTAL SCALE: 1"= 100'

10 5 0 10 20FT
VERTICAL SCALE: 1"= 10'

GENERAL NOTES:

1. Cross Sections are taken looking to higher stations normal to reference line

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New York District

Symbol	Description	Date	Appr.
△	Sheet C-35 Is Revised	6/10/05	G.A.

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W912DS-05-B-0012

Designed by: | Dwn by: | Ckd by: | Reviewed by: | Submitted by:
Date: 13MAY 2005 | Size: | Rev.:
Drawing file no.:
Drawing code:
Plot date: 10-JUN-2005 15:23
Plot by: e3endga3
Scale: 100.000000:1.000000
File name: S:\fileroom\civil\NYHarbor\Civil\Ambrose Channel\cove.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

LIBERTY STATE PARK
BATHYMETRY AND CROSS SECTIONS
OF NORTH COVE OFFSHORE DISPOSAL SITE

Sheet reference number:
C-35
Sheet 35 of 36

Submitted by: e3endga3 Plot Date: 10-JUN-2005 15:23
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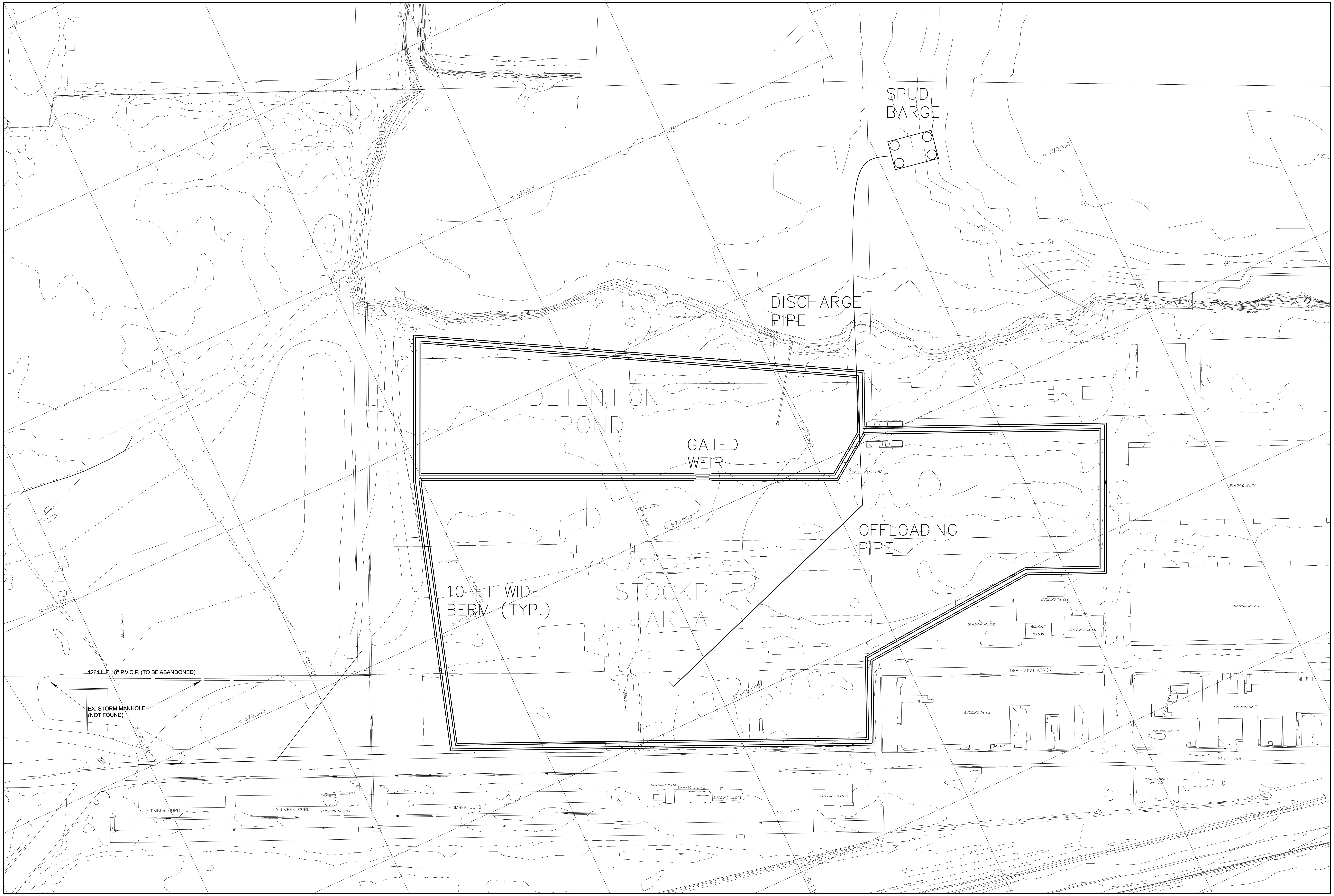

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New York District

Symbol	Description	Date	Appr.
A	Sheet No. Revised and Rearranged	6/10/05	G.A.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Gezahegne Assegid
Dwn by: G.A
Ckd by:
Reviewed by: G.A
Submitted by:
Date: 13MAY 2005
Size: —
Rev.:
Drawing file no.: CC-AM1-337
Drawing code:
Plot date: 10-JUN-2005 15:23
Plot by: e3endga3
Scale: 100.000000:1.000000
File name: s:\fileroom\civil\nyharbor\civil\Ambrose Channel\MOTBY _p2.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

DISPOSAL SITE
MILITARY OCEAN TERMINAL BAYONNE

100 50 0 100 200FT
SCALE: 1"= 100'

Sheet reference number:
C-36
Sheet 36 of 36

Submitted by: e3endga3 Plot Date: 10-JUN-2005 15:23
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